User Manual

Racks and Accessories

NetShelter SV

AR2200, AR2201, AR2280, AR2400, AR2400FP1, AR2401, AR2407, AR2480, AR2487, AR2500, AR2501, AR2507, AR2580, AR2587

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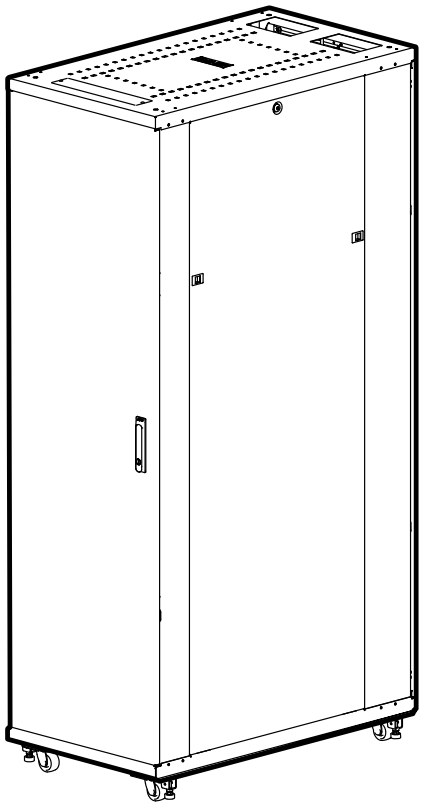

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General Information

Introduction

The NetShelter® SVcabinet is for storage of industry-standard (EIA/ECA-310), 19-inch rack-mount hardware, which includes servers and voice, data, networking, internetworking, and Schneider Electric power protection equipment.
This manual provides installation and customization instructions for the following:

- NetShelter SV 42 U, 600 mm (23.6 in.) wide, 1000 mm (39.4 in.) deep cabinet (AR2200)
- NetShelter SV 42 U, 600 mm (23.6 in.) wide, 1000 mm (39.4 in.) deep cabinet without side panels (AR2201)
- NetShelter SV 42 U, 600 mm (23.6 in.) wide, 1060 mm (41.7 in.) deep cabinet (AR2400)
- NetShelter SV 42 U, 600 mm (23.6 in.) wide, 1060 mm (41.7 in.) deep cabinet without side panels (AR2401)
- NetShelter SV 42 U, 600 mm (23.6 in.) wide, 1200 mm (47.2 in.) deep cabinet (AR2500)
- NetShelter SV 42 U, 600 mm (23.6 in.) wide, 1200 mm (47.2 in.) deep cabinet without side panels (AR2501)
- NetShelter SV 42 U, 800 mm (31.5 in.) wide, 1000 mm (39.4 in.) deep cabinet (AR2280)
- NetShelter SV 42 U, 800 mm (31.5 in.) wide, 1060 mm (41.7 in.) deep cabinet (AR2480)
- NetShelter SV 42 U, 800 mm (31.5 in.) wide, 1200 mm (47.2 in.) deep cabinet (AR2580)
- NetShelter SV 48 U, 600 mm (23.6 in.) wide, 1060 mm (41.7 in.) deep cabinet (AR2407)
- NetShelter SV 48 U, 600 mm (23.6 in.) wide, 1200 mm (47.2 in.) deep cabinet (AR2507)
- NetShelter SV 48 U, 800 mm (31.5 in.) wide, 1060 mm (41.7 in.) deep cabinet (AR2487)
- NetShelter SV 48 U, 800 mm (31.5 in.) wide, 1200 mm (47.2 in.) deep cabinet (AR2587)

NOTICE

- NetShelter SV cabinets are intended for use with approved equipment. If you install other than approved equipment, fully evaluate the safety of your configuration.
- Use qualified personnel to install the cabinet.

Safety

Important Safety Information

Read the instructions carefully to become familiar with the equipment before trying to assemble, operate, service or maintain it. The following special messages may appear throughout this manual or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.

The addition of this symbol to a Danger or Warning safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

⚠ DANGER
Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

⚠ WARNING
Indicates a potentially hazardous situation which, if not avoided, can result in death or serious injury.

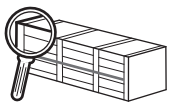
⚠ CAUTION
Indicates a potentially hazardous situation which, if not avoided, can result in moderate injury.

NOTICE
Addresses practices not related to physical injury including certain environmental hazards, potential damage or loss of data.

Receiving and Unpacking

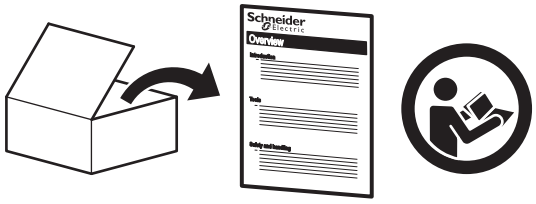
NOTICE
Schneider Electric is not responsible for damage sustained during shipment of this product.

Inspection



Upon receipt, inspect the package and contents for damage. Verify the contents are complete.

Report missing contents, damage, or other problems immediately to Schneider Electric or your Schneider Electric reseller. Keep all packaging for inspection if damage is found.



Please Recycle

The shipping materials are recyclable. Save them for later use, or dispose of them appropriately.

Moving the Equipment

Recommended tools for moving the equipment while it is still on the pallet:

Pallet Jack

Forklift

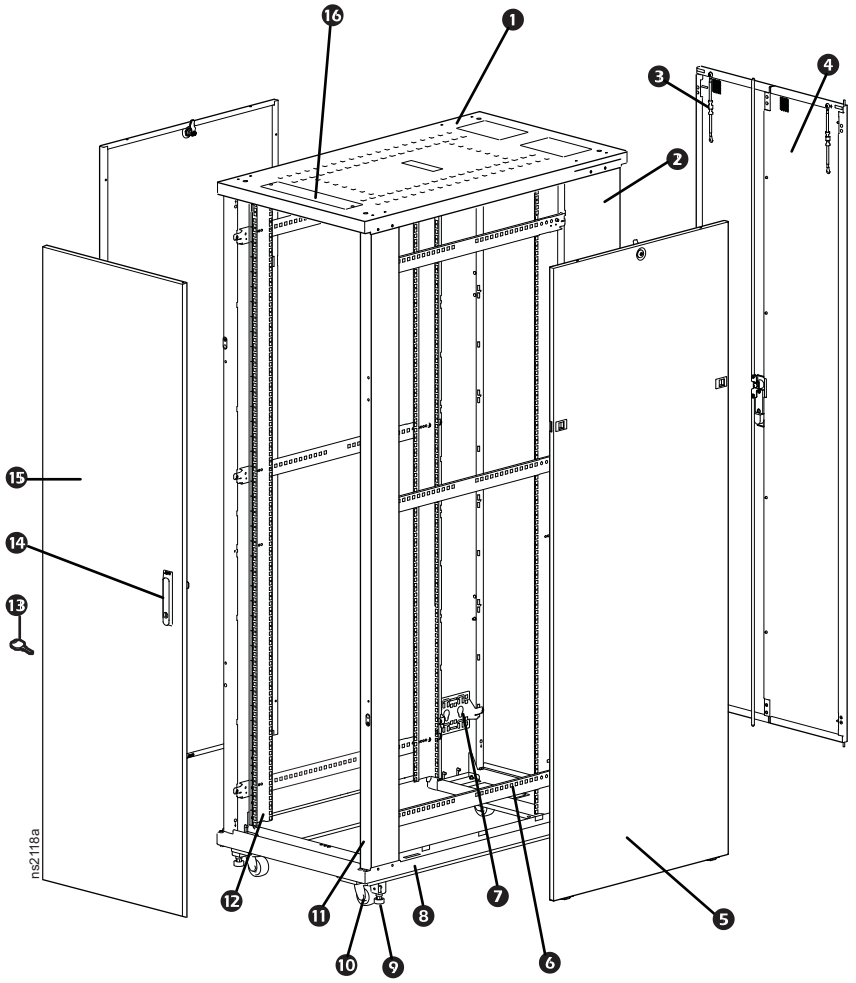
Unpacking

⚠WARNING

TIP HAZARD
This cabinet is easily tipped. Use extreme caution when unpacking or moving.
• Use at least two people to unpack and move the cabinet.
• Before moving the cabinet on its casters, load 158 kg (350 lbs) of equipment into the bottom of the cabinet for extra stability.
• When moving on its casters, make sure the leveling feet are up and push the cabinet from the front or rear.
Failure to follow these instructions can result in death, serious injury, or equipment damage.

1. Move the shipping pallet to a firm, level surface.
2. Inspect for visible signs of shipping damage. If damage has been detected, contact Schneider Electric Customer Support using the contact information on the back cover of this manual.
3. Remove the plastic stretch wrap, cardboard corners, and polyethylene bag surrounding the equipment.
4. Use the Torx T30/#2 Phillips wrench (provided) and 13 mm wrench (not provided) to remove the four pallet mounting brackets. Save these mounting brackets if you plan to bolt the cabinet to the floor.
5. Carefully roll the equipment off the pallet and onto the floor.

Component Identification



Item	Description	Qty
❶	Roof	1
❷	Rear Frame	1
❸	Grounding wire	3
❹	Rear Split Doors	2
❺	Side Panels	2
❻	Horizontal Side Braces	6
❼	Accessory Mounting Brackets	4
❽	Base	1

Item	Description	Qty
❾	Leveling Feet	4
❿	Casters	4
⓫	Front Frame	1
⓬	Vertical Mounting Flanges	4
⓭	Door and Side Panel Keys	2
⓮	Door Handles	2
⓯	Front Door	1
⓰	Roof/Base Access Panels	2

Equipment Installation Hardware

Plastic cup washers (30)

M6 x 16 Phillips head screws (30)

Cage nuts (30)

Joining Brackets for 24 in. centers (4)

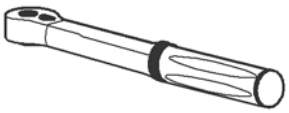
M5 x 12 screws (4) for joining cabinets

Tools (provided)

Torx® T30/#2 Phillips wrench

Cage nut tool

Tools (not provided)



Torque wrench

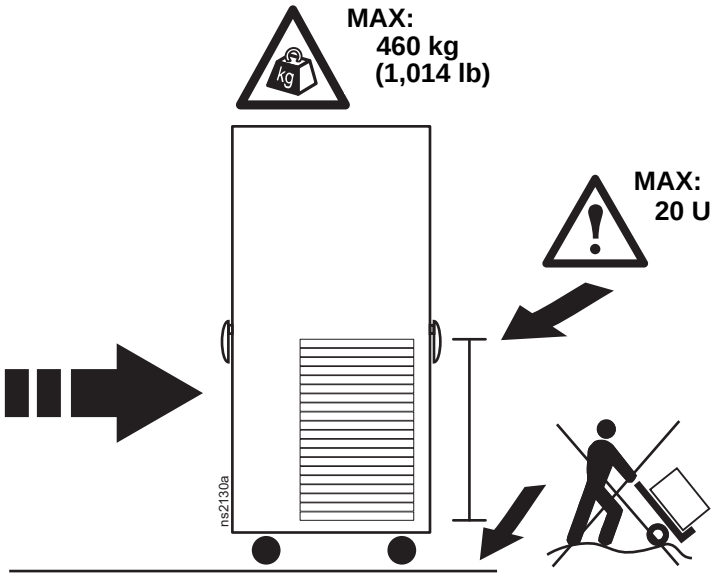
Open end wrench

Cabinet Installation

Moving the Cabinet

⚠ WARNING

TIP HAZARD
This cabinet is easily tipped. Use extreme caution when unpacking or moving.
• Use at least two people to unpack and move the cabinet.
• Before moving the cabinet on its casters, load 158 kg (350 lb) of equipment into the bottom equipment mounting space of the cabinet for extra stability.
• When moving on its casters, make sure the leveling feet are up and push the cabinet from the front or rear.
Failure to follow these instructions can result in death, serious injury, or equipment damage.

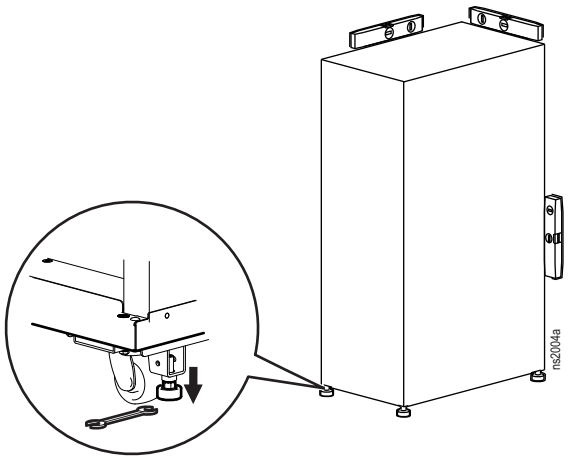


NOTICE

The leveling feet provide a stable base if the floor is uneven, but cannot compensate for a steeply sloped surface.

Level the Cabinet

1. Using a 13 mm wrench, lower each leveling foot until in makes contact with the floor.
2. Adjust each foot until the equipment is level and plumb.

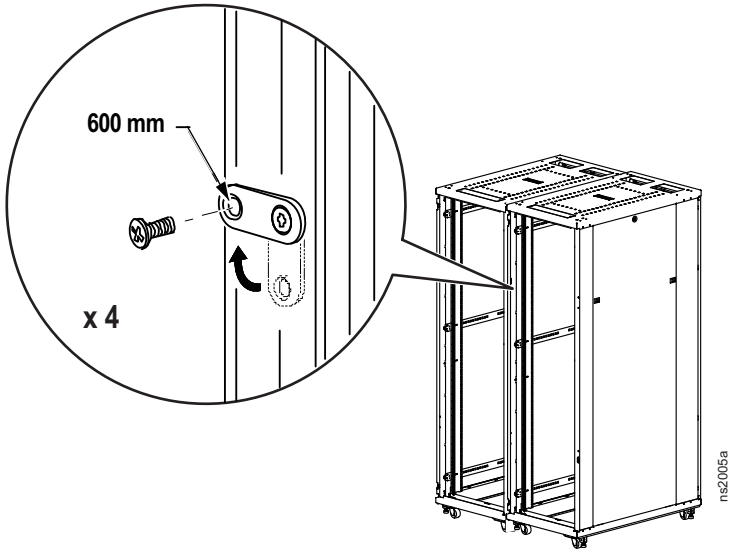


Joining Cabinets

Cabinets can be joined with or without side panels installed to provide for alignment and some stability. The cabinets are shipped with pre-installed joining brackets for 600 mm centers. To join on 24 in. centers, the cabinet is provided with 24 in. joining brackets in the hardware bag.

⚠ WARNING
TIP HAZARD Joining cabinets provides limited stability. Ensure the cabinet is secured to the floor before installing equipment. **Failure to follow these instructions can result in serious injury or equipment damage.**

1. Remove the front and rear doors.
2. The cabinet is preinstalled with 600 mm centers. To join with 24 in. centers, replace the preinstalled joining brackets with 24 in. joining brackets (provided in the hardware bag).
3. Align the cabinets and join them using one M5 x 12 flat-head screw (provided in the hardware bag) per bracket—two brackets for the front and two brackets for the rear.
4. Reinstall the doors.

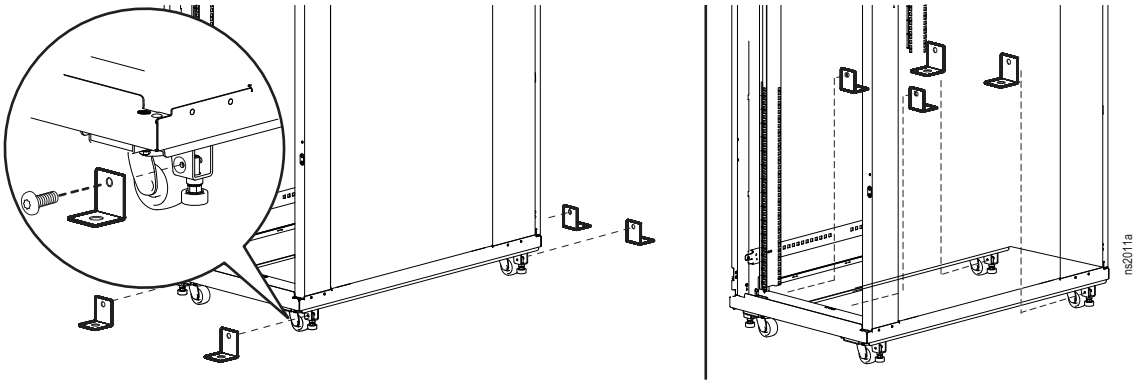


Secure the Cabinet

NOTICE
Bolt-down brackets secure the cabinet to the pallet during shipment. Remove them from the cabinet and pallet and save them to secure the cabinet to the floor during installation.

⚠ WARNING
TIP HAZARD Secure the cabinet to the floor before installing equipment. **Failure to follow these instructions can result in serious injury or equipment damage.**

To secure the cabinet to the floor, use fastener locations on the outside or inside of the cabinet and the bolt-down brackets (provided).

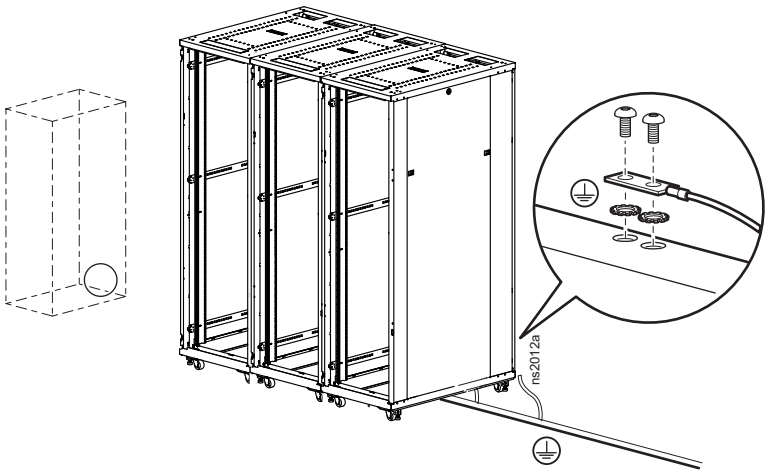


Ground the Cabinet

Each cabinet should be bonded directly to a common ground using the designated grounding location (two M6 threaded inserts) at the bottom rear of the cabinet.

- Use a Common Bonding Network Jumper kit (not provided). For example, Listed [KDER] Panduit® RGCBNJ660PY or equivalent.
- Use paint-piercing washers between ground terminal and cabinet frame or remove paint on frame under ground terminals per NEC NFPA 70 Article 250.12
- Torque screws to (60 in-lb, 6.8 N-m).

Bonding Location on the Cabinet

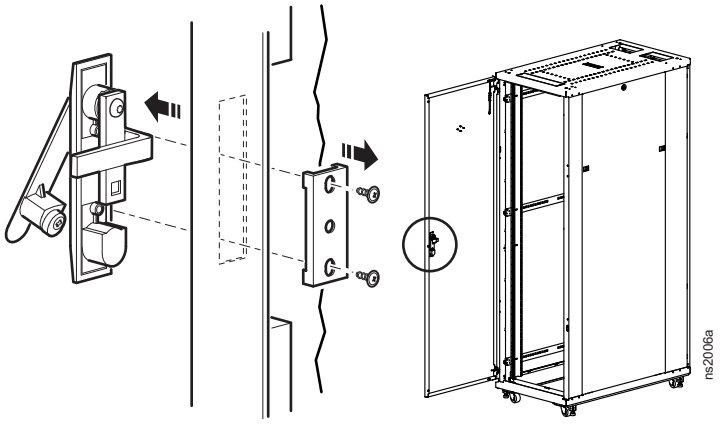


Customize the Cabinet

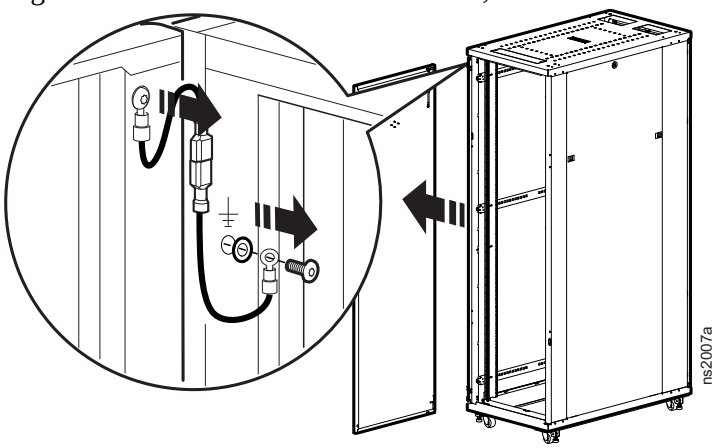
Reverse the Front Door

You can reverse the front door so that the door is hinged on the opposite side.

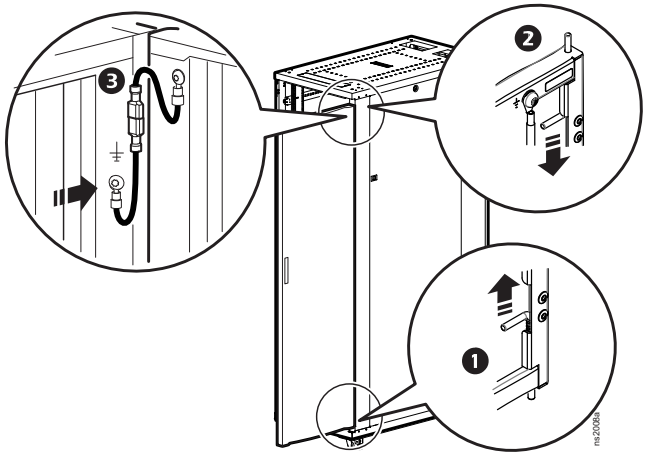
1. Remove the handle using the Torx T30/#2 Phillips wrench (provided).



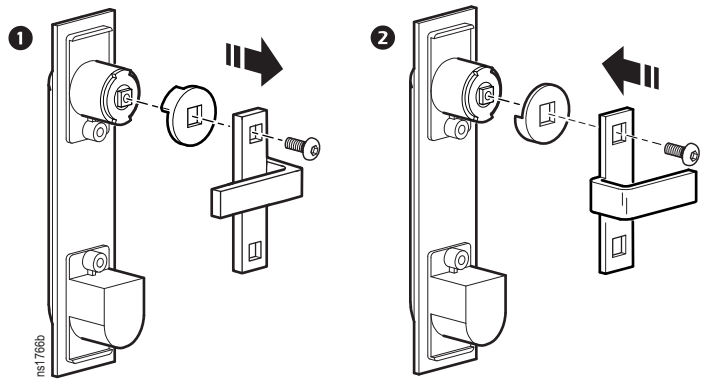
2. Unfasten the ground wire from the cabinet and door, then remove the door.



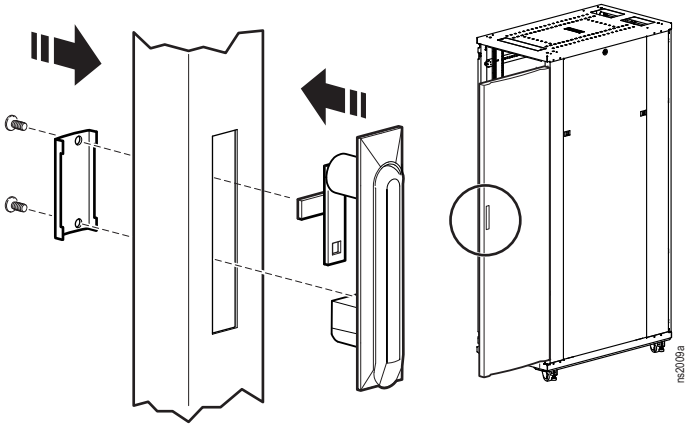
3. Rotate and reinstall the door to the opposite side. Remove any plastic hole plugs and reinstall the ground wire to the door and cabinet.



4. Remove and reinstall the latch and washer oriented as shown using a Torx T30/#2 Phillips wrench. The washer is rotated 90 degrees from its original orientation, and the latch is rotated 180 degrees.

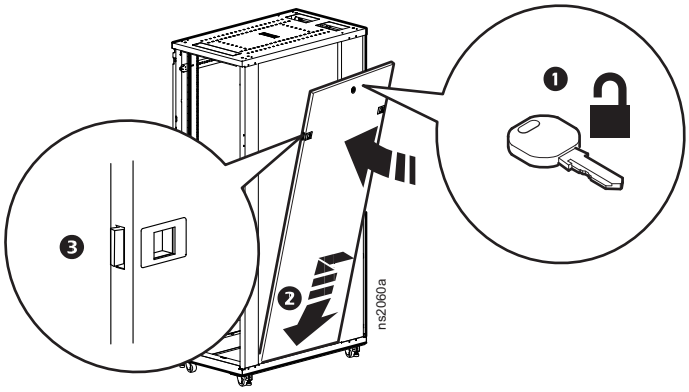


5. Reinstall the handle to the door. Torque the screws to 28 - 30 in-lb (3.2 - 3.4 N-m).



Side Panels

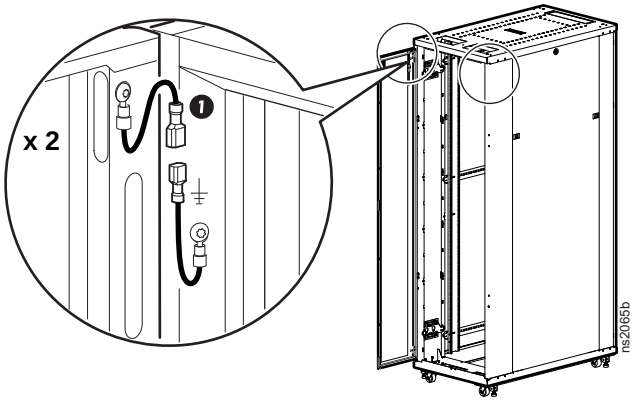
Remove and install side panels



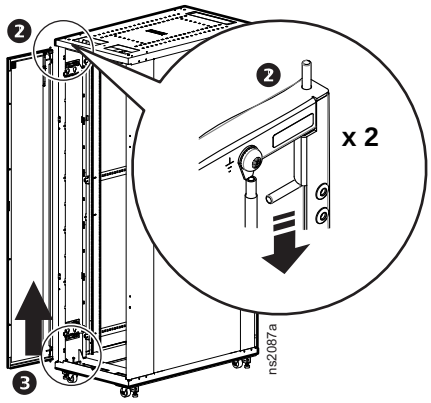
Rear Doors

Removal

1. Disconnect the grounding wires attached to the rear doors at the connector.

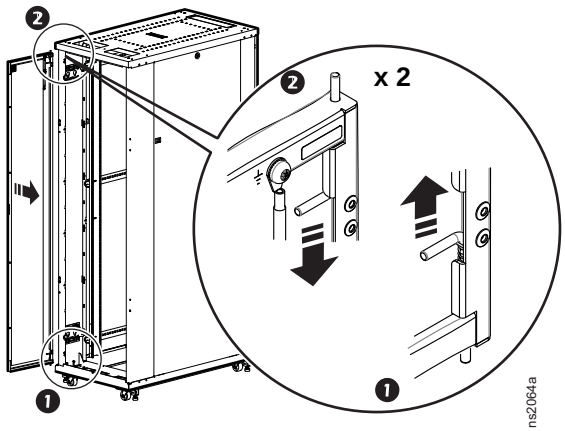


2. Remove the left and right rear doors by pulling the top hinge pin down to release the pin from the hole securing it to the frame.
3. Lift the door to remove the bottom hinge pin from the hole in the cabinet base.

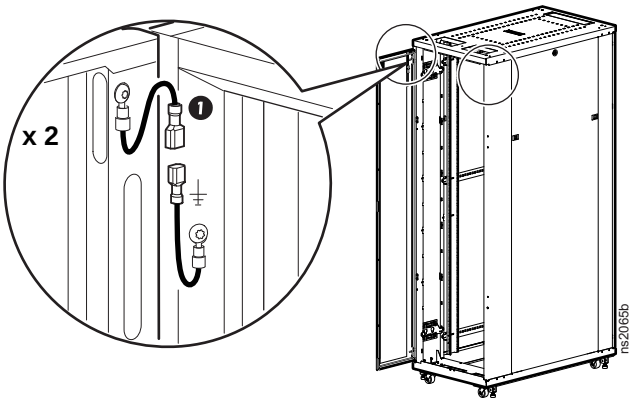


Installation

1. Install the left and right rear doors by aligning the bottom hinge pin to the hole in the cabinet base.
2. Pull the top hinge pin down, align with the hole in the roof, then release.



3. Connect the grounding wires.

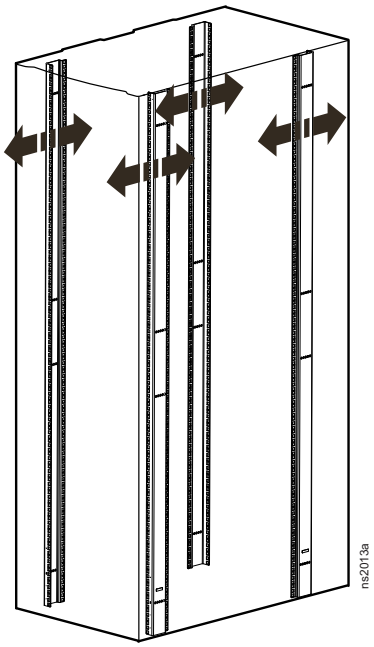


Equipment Installation

NOTICE
NetShelter SV cabinets are intended for use with Listed equipment. If you install un-Listed equipment, you should evaluate the safety of your configuration.

Adjust Vertical Mounting Flanges

Vertical mounting flanges come factory-installed in the proper location for use with rack-mountable equipment. The mounting flanges are adjustable towards the front or the rear of the cabinet to fit different rails or equipment with other depths to accommodate a wide variety of networking and telecommunications equipment.



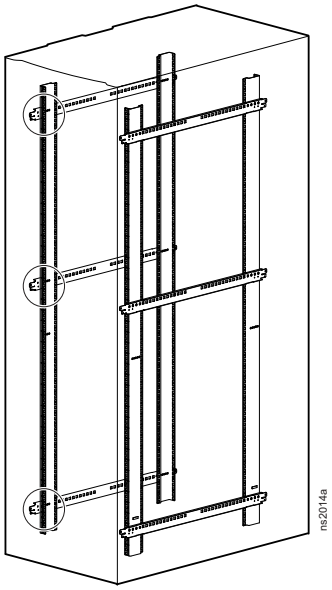
Adjustable Vertical Mounting Flange

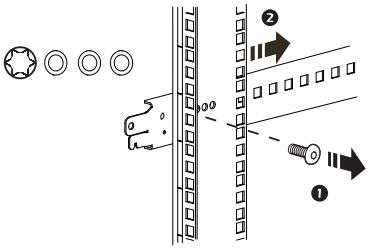
Cabinet Depth	Factory Installed	Minimum Depth	Maximum Depth
1000 mm	678 mm (26.7 in.)	168 mm (6.6 in.)	718 mm (28.3 in.)
1060 mm	738 mm (29.1 in.)	168 mm (6.6 in.)	778 mm (30.6 in.)
1200 mm	738 mm (29.1 in.)	258 mm (10.2 in.)	918 mm (36.1 in.)

NOTICE
If the vertical mounting flanges are adjusted from their factory mounting position more than 60 mm (2.4 in.), the vertical mounting flanges attach to the cabinet side brace using cage nuts and fasteners. Refer to the instructions on page 15.

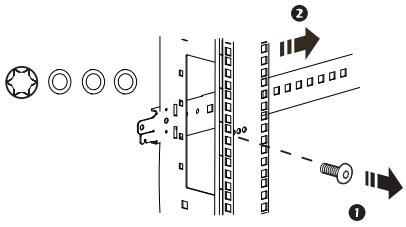
Installation

1. Use the Torx T30/#2 Phillips wrench (provided) to adjust a vertical mounting flange. Remove the T30 screws at the top, middle, and bottom of the vertical mounting flange. Save the screws for adjustment and reinstallation in the new position.





600 mm cabinet



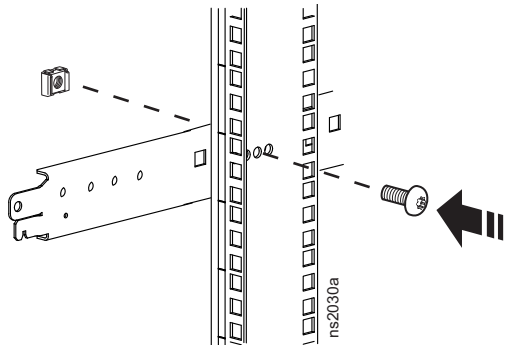
800 mm cabinet

⚠ CAUTION

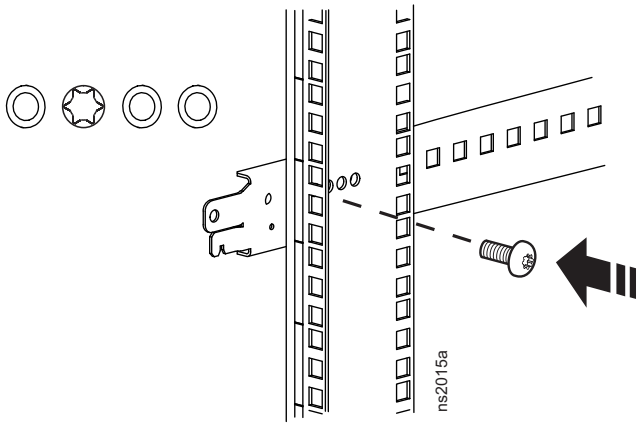
STABILITY HAZARD
When adjusting vertical mounting flanges, ensure that no equipment is installed on the vertical mounting flanges.
Failure to follow these instructions can result in injury or equipment damage.

NOTICE

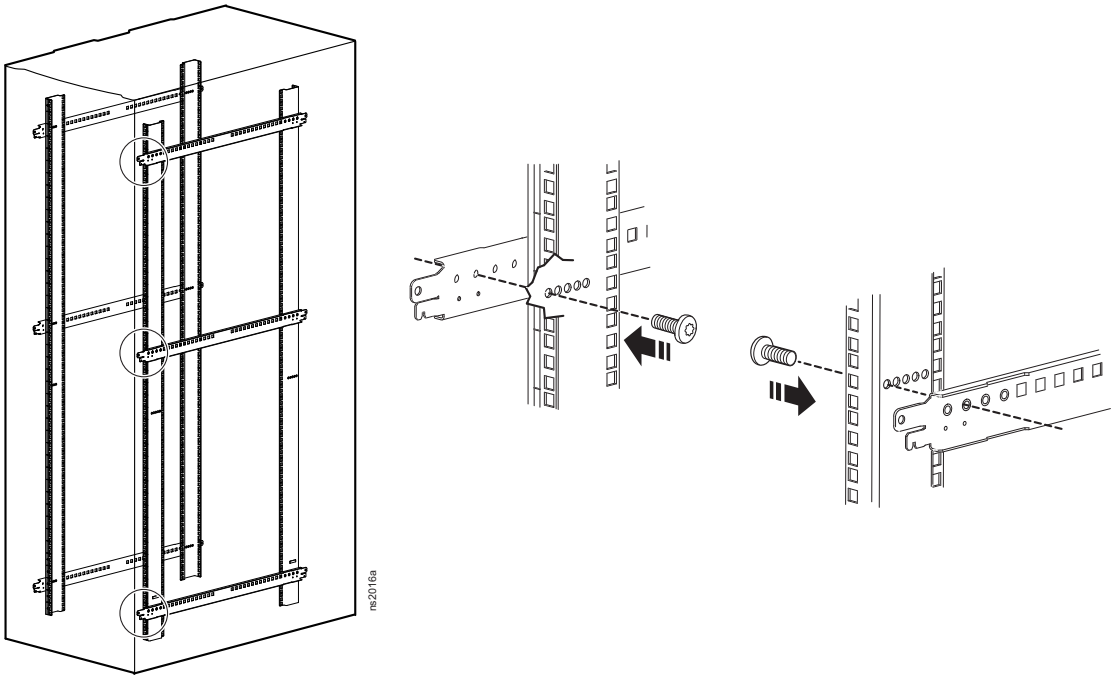
• Vertical mounting flange attachment positions are in 10 mm (0.4 in.) increments.
• If the vertical mounting flanges are adjusted from their factory mounting position more than 60 mm (2.4 in.), the vertical mounting flanges attach to the cabinet side brace using cage nuts and fasteners.



2. Move the mounting flange to the desired location and reinstall the T30 fastener at the top, middle and bottom to secure the vertical mounting flange.



3. Perform the vertical mounting flange adjustment to the opposite side of the cabinet. Ensure that the same mounting position is used at the top, middle and bottom. Torque to 28 - 30 in-lb (3.2 - 3.4 N-m).



NOTICE
Verify that all Vertical Mounting Flanges are properly aligned before installing equipment in place.

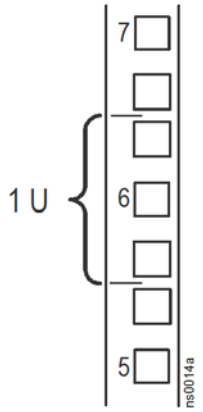
Installing Equipment

⚠ WARNING

TIP HAZARD
This cabinet is easily tipped. Follow the precautions below during and after equipment installation.
• Make sure you have secured the cabinet to the floor before installing equipment.
• Install the heaviest equipment first toward the bottom of the cabinet to prevent the cabinet from becoming top-heavy.
• Do not extend equipment on sliding rails until you have installed 158 kg (350 lbs) of equipment into the bottom of the cabinet for stability or until you have installed the bolt-down brackets. Do not extend more than one piece of equipment on sliding rails at a time.
Failure to follow these instructions can result in death, serious injury, or equipment damage.

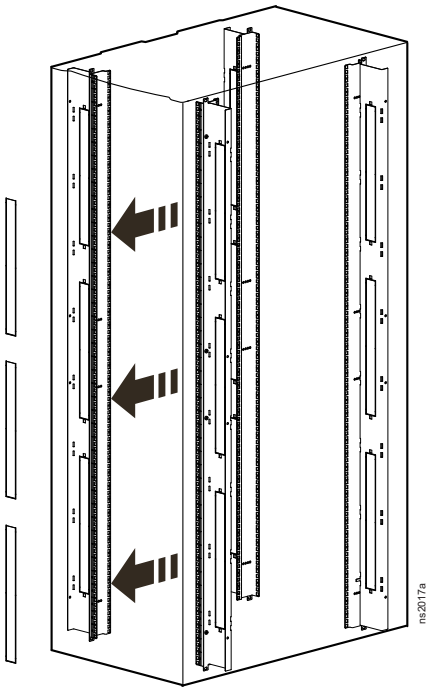
To install rack-mount equipment in the cabinet:

1. Review the equipment manufacturer's installation instructions.
2. Locate the top and bottom U-space on the vertical mounting rails. Every third hole on the mounting rail is numbered to indicate the middle of a U-space.
3. Install the cage nuts on the interior of the vertical mounting rail; then install the equipment. (To remove a cage nut, squeeze the sides to release it from the square hole.)



Vertical Mounting Flange Cutouts

NetShelter SV 800 mm (31.5 in.) wide cabinets have removable vertical mounting flange cutouts along the sides. When removed, side airflow is increased. Other airflow and cable management options exist. Please visit the website (www.apc.com) for other options and more information.



Cable Management

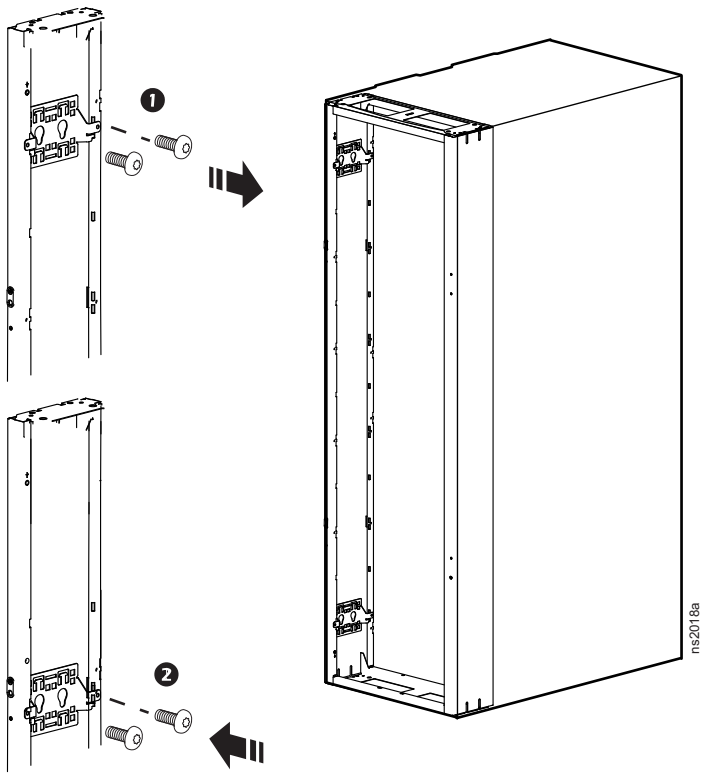
Route, secure, and organize cables using the multiple cable access openings on the cabinet roof, sides, and bottom, the accessory mounting brackets included with the cabinet, plus the variety of cable management accessories available.

Adjust Vertical 0 U Accessory Mounting Brackets

The vertical 0 U accessory mounting brackets (four included) provide toolless mounting capabilities for Schneider Electric Rack Power Distribution Units (PDUs) and cable management. They also provide tie-off locations for cables.

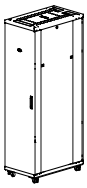
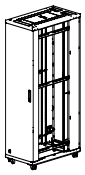
The factory-default position for the vertical 0 U accessory brackets is in the rear of the cabinet. The brackets are positioned for full-height vertical Rack PDUs.The bracket can be moved up or down to accommodate different accessories. Additional brackets are available for purchase as requirements change.

1. Use the Torx® T30/#2 Phillips wrench (provided) to remove the two T30 screws.
2. Move to the desired position, and reinstall the brackets.



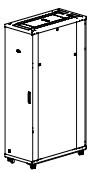
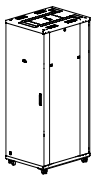
Specifications

42 U Cabinets

	 **AR2200**	**AR2400**	 **AR2401**
Height	2057 mm (81.0 in.)	2057 mm (81.0 in.)	2057 mm (81.0 in.)
Width	600 mm (23.6 in.)	600 mm (23.6 in.)	600 mm (23.6 in.)
Depth	1000 mm (39.4 in.)	1060 mm (41.7 in.)	1060 mm (41.7 in.)
Net weight	108.8 kg (239.9 lb)	112.2 kg (247.4 lb)	85.0 kg (187.4 lb)
Total open area front door	778 176 mm^2 (1,206 in^2)	778 176 mm^2 (1,206 in^2)	778 176 mm^2 (1,206 in^2)
Total open area rear door	805 637 mm^2 (1,249 in^2)	805 637 mm^2 (1,249 in^2)	805 637 mm^2 (1,249 in^2)
Open area per U front door	18 528 mm^2 (28.7 in^2)	18 528 mm^2 (28.7 in^2)	18 528 mm^2 (28.7 in^2)
Open area per U rear door	19 182 mm^2 (29.7 in^2)	19 182 mm^2 (29.7 in^2)	19 182 mm^2 (29.7 in^2)
Perforation pattern	69.4 % open area	69.4 % open area	69.4 % open area
Perforation pattern front door	69.3 %	69.3 %	69.3 %
Perforation pattern rear door	71.7 %	71.7 %	71.7 %
Clearance (for wiring between front door and vertical mounting flange)	14.0 mm (0.6 in.)	14.0 mm (0.6 in.)	14.0 mm (0.6 in.)
Weight rating: static (leveling feet) load	1000 kg (2,205 lb)	1000 kg (2,205 lb)	1000 kg (2,205 lb)
Weight rating: dynamic (casters) load†	460 kg (1,014 lb)	460 kg (1,014 lb)	460 kg (1,014 lb)
Weight rating: cabinet roof cable load	45 kg (99 lb)	45 kg (99 lb)	45 kg (99 lb)

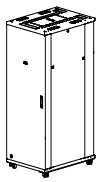
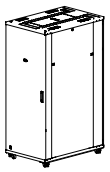
† To move the cabinet on its casters, the equipment load must be evenly distributed, must not exceed 460 kg (1,014 lb) and the equipment must not be installed above the 20 U height.

42 U Cabinets, continued

		
	AR2500	**AR2280**
Height	2057 mm (81.0 in.)	2057 mm (81.0 in.)
Width	600 mm (23.6 in.)	800 mm (31.5 in.)
Depth	1200 mm (47.2 in.)	1000 mm (39.4 in.)
Net weight	121.3 kg (267.4 lb)	126.7 kg (279.3 lb)
Total open area front door	778 176 mm^2 (1,206 in^2)	1 137 330 mm^2 (1,763 in^2)
Total open area rear door	805 637 mm^2 (1,249^2)	1 171 657 mm^2 (1,816 in^2)
Open area per U front door	18 528 mm^2 (28.7 in^2)	27 079 mm^2 (42.0 in^2)
Open area per U rear door	19 182 mm^2 (29.7 in^2)	27 897 mm^2 (43.2 in^2)
Perforation pattern	69.4% open area	69.4% open area
Perforation pattern front door	69.3%	75.8%
Perforation pattern rear door	71.7%	78.0%
Clearance (for wiring between front door and vertical mounting flange)	14.0 mm (0.6 in.)	14.0 mm (0.6 in.)
Weight rating: static (leveling feet) load	1000 kg (2,205 lb)	1000 kg (2,205 lb)
Weight rating: dynamic (casters) load†	460 kg (1,014 lb)	460 kg (1,014 lb)
Weight rating: cabinet roof cable load	45 kg (99 lb)	45 kg (99 lb)

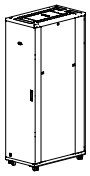
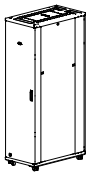
† To move the cabinet on its casters, the equipment load must be evenly distributed, and must not exceed 460 kg (1,014 lb) and equipment must not be installed above the 20 U height.

42 U Cabinets, continued

	 AR2480	 AR2580
Height	2057 mm (81.0 in.)	2057 mm (81.0 in.)
Width	800 mm (31.5 in.)	800 mm (31.5 in.)
Depth	1060 mm (41.7 in.)	1200 mm (47.2 in.)
Net weight	130.5 kg (287.7 lb)	139.5 kg (307.5 lb)
Total open area front door	1 137 330 mm^2 (1,763 in^2)	1 137 330 mm^2 (1,763 in^2)
Total open area rear door	1 171 657 mm^2 (1,816 in^2)	1 171 657 mm^2 (1,816 in^2)
Open area per U front door	27 079 mm^2 (42.0 in^2)	27 079 mm^2 (42.0 in^2)
Open area per U rear door	27 897 mm^2 (43.2 in^2)	27 897 mm^2 (43.2 in^2)
Perforation pattern	69.4% open area	69.4% open area
Perforation pattern front door	75.8%	75.8%
Perforation pattern rear door	78.0%	78.0%
Clearance (for wiring between front door and vertical mounting flange)	14.0 mm (0.6 in.)	14.0 mm (0.6 in.)
Weight rating: static (leveling feet) load	1000 kg (2,205 lb)	1000 kg (2,205 lb)
Weight rating: dynamic (casters) load†	460 kg (1,014 lb)	460 kg (1,014 lb)
Weight rating: cabinet roof cable load	45 kg (99 lb)	45 kg (99 lb)

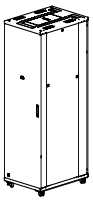
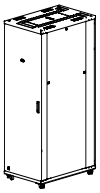
† To move the cabinet on its casters, the equipment load must be evenly distributed, and must not exceed 460 kg (1,014 lb) and equipment must not be installed above the 20 U height.

48 U Cabinets

	 **AR2407**	 **AR2507**
Height	2324 mm (91.5 in.)	2324 mm (91.5 in.)
Width	600 mm (23.6 in.)	600 mm (23.6 in.)
Depth	1060 mm (41.7 in.)	1200 mm (47.2 in.)
Net weight	123.5 kg (272.3 lb)	131.2 kg (289.2 lb)
Total open area front door	900 609 mm^2 (1,396 in^2)	900 609 mm^2 (1,396 in^2)
Total open area rear door	917 858 mm^2 (1,423 in^2)	917 858 mm^2 (1,423 in^2)
Open area per U front door	187 63 mm^2 (29.1 in^2)	187 63 mm^2 (29.1 in^2)
Open area per U rear door	19 122 mm^2 (29.6 in^2)	19 122 mm^2 (29.6 in^2)
Perforation pattern	69.4% open area	69.4% open area
Perforation pattern front door	70.3%	70.3%
Perforation pattern rear door	71.6%	71.6%
Clearance (for wiring between front door and vertical mounting flange)	14.0 mm (0.6 in.)	14.0 mm (0.6 in.)
Weight rating: static (leveling feet) load	1000 kg (2,205 lb)	1000 kg (2,205 lb)
Weight rating: dynamic (casters) load†	460 kg (1,014 lb)	460 kg (1,014 lb)
Weight rating: cabinet roof cable load	45 kg (99 lb)	45 kg (99 lb)

† To move the cabinet on its casters, the equipment load must be evenly distributed, and must not exceed 460 kg (1,014 lb) and equipment must not be installed above the 20 U height.

48 U Cabinets, continued

	 **AR2487**	 **AR2587**
Height	2324 mm (91.5 in.)	2324 mm (91.5 in.)
Width	800 mm (31.5 in.)	800 mm (31.5 in.)
Depth	1060 mm (41.7 in.)	1200 mm (47.2 in.)
Net weight	143.8 kg (317.0 lb)	152.8 kg (336.9 lb)
Total open area front door	1 316 270 mm^2 (2,040 in^2)	1 316 270 mm^2 (2,040 in^2)
Total open area rear door	1 334 498 mm^2 (2,069 in^2)	1 334 498 mm^2 (2,069 in^2)
Open area per U front door	27 422 mm^2 (42.5 in^2)	27 422 mm^2 (42.5 in^2)
Open area per U rear door	27 802 mm^2 (43.1 in^2)	27 802 mm^2 (43.1 in^2)
Perforation pattern	69.4% open area	69.4% open area
Perforation pattern front door	76.9%	76.9%
Perforation pattern rear door	78.0%	78.0%
Clearance (for wiring between front door and vertical mounting flange)	14.0 mm (0.6 in.)	14.0 mm (0.6 in.)
Weight rating: static (leveling feet) load	1000 kg (2,205 lb)	1000 kg (2,205 lb)
Weight rating: dynamic (casters) load†	460 kg (1,014 lb)	460 kg (1,014 lb)
Weight rating: cabinet roof cable load	45 kg (99 lb)	45 kg (99 lb)

† To move the cabinet on its casters, the equipment load must be evenly distributed, and must not exceed 460 kg (1,014 lb) and equipment must not be installed above the 20 U height.

NOTICE
It is prohibited to ship a NetShelter SV cabinet while the unit is loaded with any equipment.

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Non-transferable Warranty

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